

CLOUD COMPUTING SEMINAR

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Agenda

- ▣ Seminar goals
- ▣ Interesting questions
- ▣ Existing systems to consider
- ▣ Organizational details
- ▣ Open discussion

Seminar Goals

- ▣ Spur discussion of Cloud Computing and Software as a Service (SaaS)
 - Focus on how these technologies can be used in a scientific environment
 - Share experiences to avoid duplication of effort
 - Identify research necessary to enable widespread adoption in the scientific computing community
 - ▣ Great combination of production and research expertise represented here

OTHER GOALS?

Questions

- ▣ Who are the potential customers?
 - Will Clouds be used to provide services to internal lab users?
 - Will NERSC be providing Cloud services to the broader user community.
- ▣ Relationship to commercial work
 - What is different in our environment vs. what can we leverage from the commercial world?
 - ▣ What will we need to change to integrate into our environment?

OTHER QUESTIONS?

Existing Systems

- ▣ Amazon EC2 and S3
 - <http://aws.amazon.com/>
- ▣ Google App Engine
 - <http://code.google.com/appengine/>
- ▣ Eucalyptus
 - <http://eucalyptus.cs.ucsb.edu/>
- ▣ NIMBUS
 - <http://workspace.globus.org/clouds/>
- ▣ HubZero
 - <http://www.hubzero.org/>

OTHER SYSTEMS?

Organization Details

- ▣ One meeting a month with a presentation and discussion topic
 - Present experiences with a particular technology
 - Present an overview of a paper
- ▣ Literature review

OPEN DISCUSSION